

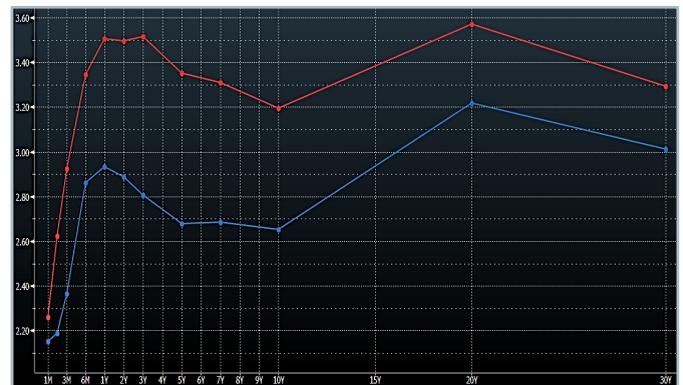


TREASURY RATES ROSE SHARPLY, EASILY REVERSED JULY'S MOVE

- Treasury yields in 2-10-year maturities rose 55-67 basis points (bps) in August, unwinding the previous month's decline in rates.
- Relatively strong economic data and hawkish Fed commentary threw cold water on speculation that the central bank might slow its monetary policy tightening, pushing rates higher.
 - Early in the month, St. Louis Fed President Bullard said he expected the funds rate to be between 3.75% and 4% by year-end, about 50 bps higher than futures indicated at the end of July.
 - Near month-end, Fed Chair Powell commented that rate hikes would continue even if they weigh on economic growth.
 - Futures pricing now projects a 3.75% Fed funds rate at year-end.
- The labor market showed continued strength in July with 528,000 jobs created, the most since February, compared to expectations for less than half that amount as healthcare, professional/business services, and leisure/hospitality led the gains.
 - Average hourly earnings rose 0.5% (expected: 0.3%), and the unemployment rate unexpectedly moved lower to 3.5% with the labor force participation rate ticking higher.
- Institute for Supply Management (ISM) surveys indicated greater than expected growth in July for both the manufacturing and service sectors; however, expansion in the former slowed.
- Inflation showed signs of relief as a decline in energy prices helped keep the Consumer Price Index (CPI) unchanged in July despite expectations of a 0.2% increase.
 - Core CPI rose 0.3% (expected: 0.5%).

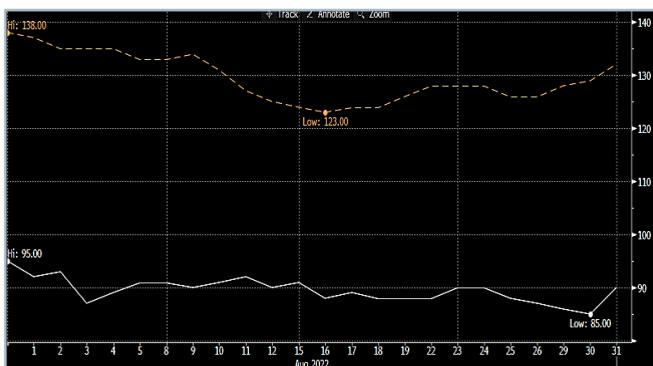
Maturity	7/31/22 Treasury	8/31/22 Treasury	Change
2-year	2.89%	3.50%	0.61%
5-year	2.68%	3.35%	0.67%
7-year	2.68%	3.31%	0.63%
10-year	2.65%	3.20%	0.55%
30-year	3.01%	3.29%	0.28%

Treasury Yield Curve: 7/31/22 (blue) vs. 8/31/22 (red)



Segment	August Return	2022 Return
Bloomberg Barclays Intermediate Government Credit Index	-2.00%	-7.14%
ICE BofA 1-10 Year US Treasury Index	-1.89%	-6.20%
ICE BofA 1-10 Year US Inflation-Linked Treasury Index	-1.85%	-3.66%
ICE BofA 1-10 Year Corporate Index	-1.76%	-8.83%
ICE BofA 1-10 Year Taxable Municipal Index	-1.97%	-7.86%

1-10 Year IG Credit Spreads: Corporate (orange) and Taxable Municipal (white) August 2022



TIPS AND CREDIT MARKETS LARGELY FOLLOWED THE MOVE IN NOMINAL TREASURIES

- Treasury Inflation Protected Securities (TIPS) performance mirrored that of nominal Treasuries during the month as income offset a decline in inflation expectations.
 - After reaching a multi-decade high of 3.04% in April, the 10-year inflation break-even rate has fallen substantially, declining another 7 bps in August to 2.48%.
 - Inflation expectations on shorter maturities fell more sharply due to evolving market projections for Fed policy, as the 5-year TIPS breakeven rate declined 20 bps to 2.59% in August.
- Despite various headwinds including a risk-off market sentiment to end the month, investment grade corporate bonds outperformed Treasuries in August with 1-10 year issues returning 41 bps more than government bonds on a duration-adjusted basis.
 - The majority of outperformance was realized within the BBB rating subset as the highest tier categories (AAA and AA) essentially matched Treasury bond performance.
- On a duration-neutral basis, taxable municipal bonds outperformed Treasuries by a slight margin but lagged the excess return provided by corporate bonds.
- Last month, we referenced FDIC-insured certificates of deposit (CDs) as a potentially attractive credit alternative given spread levels. However, following the August rise in Treasury rates and lag in corresponding CD yield move, spreads compressed to generally unattractive levels by month-end.

Source: Bloomberg; Bureau of Economic Analysis; Federal Reserve; ICE BofA; Veritable, L.P. All numbers are estimates. See Disclosures for index descriptions and additional information.

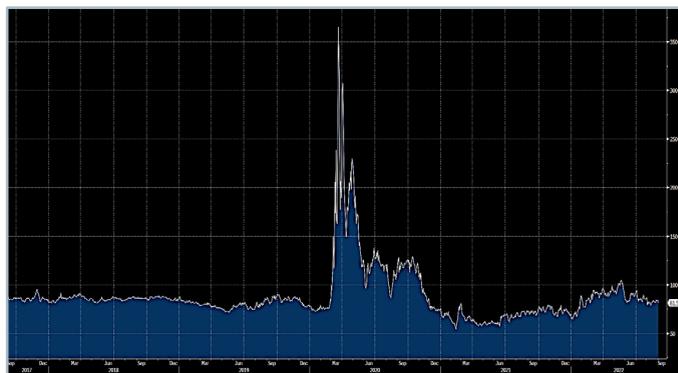
MUNICIPAL YIELDS FOLLOWED TREASURY RATES HIGHER, POSTED WORST MONTHLY PERFORMANCE SINCE APRIL

- The summer rally that started in June continued through the first week of August before municipal rates rose dramatically along with their taxable counterparts for the remainder of the month.
- AAA tax-exempt rates in 2-10 year maturities rose 38-68 bps, and the municipal curve bear flattened with shorter-term yields rising at a faster pace versus longer maturities.
- Relative performance was mixed, as municipal debt underperformed Treasuries at both ends of the curve but outperformed in the mid-section.
- Expensive relative valuations along with upward pressure from variable rate demand note (VRDN) yields exerted pressure on front-end tax-exempt rates; the 1-year AAA municipal yield rose 83 bps over the month to 2.21% versus a 57 bps rise in the comparable-maturity Treasury rate to 3.51%.
- Meanwhile, AAA tax-exempt rates rose 37-52 bps in the belly of the curve (5-15 year maturities) versus a similar 46-67 bps rise in comparable-maturity Treasury yields.
- Despite short-end underperformance that reflated relative valuations to more palatable levels, yield ratios finished August at around 81% or lower out to ten years, below their respective averages over the past five years.
- For the month, the 10-year AAA municipal yield rose 38 bps to 2.59%.
- The term premium between 2-year and 10-year AAA municipal rates declined 30 bps to 31 bps, well below the 5-year average of around 60 bps.

Maturity	7/31/22 Muni	8/31/22 Muni	Change	% of U.S. Govt 8/31/22
2-Year	1.60%	2.28%	0.68%	65.14%
5-Year	1.80%	2.32%	0.52%	69.25%
7-Year	2.03%	2.40%	0.37%	72.51%
10-Year	2.21%	2.59%	0.38%	80.94%
15-Year	2.53%	2.93%	0.40%	92.43%
20-Year	2.75%	3.14%	0.39%	87.96%
30-Year	2.89%	3.29%	0.40%	100.00%

- According to Refinitiv Lipper, weekly-reporting municipal bond fund outflows accelerated toward month-end catalyzed by Treasury volatility.
 - In August, municipal bond outflows totaled \$4.4 billion, up sharply from July's losses of \$570 million.
 - Through the week ended August 17th, municipal funds added \$236 million before losing \$4.6 billion in the second half of the month.
 - Weekly-reporting municipal funds have experienced outflows in 28 of the past 33 weeks through the end of August.

10-Year AAA Municipal-to-Treasury Yield Ratio: 2017-2022



- The 7-10 year maturity range was favored by municipal investors, resulting in the best relative performance with the 10-year yield ratio falling to 81% versus a five-year average of 88%.
- The “defensive demand” theme of June and July reversed with dramatic effect in August, resulting in a sharp sell-off in short-term municipal debt.
 - The 2-year AAA municipal-to-Treasury yield ratio jumped from 55% in July to 65% in August but remained expensive (5-year historical average: 88%).
 - Reflated short-term relative valuations have reduced the attractiveness of crossover investments for wealthy investors.
- Municipal net supply remained negative in August with redemptions exceeding new issuance by \$13 billion.
 - July and August represent the most technically-supportive months for tax-exempt debt according to JP Morgan, with net supply in negative territory.
 - Heading out of the ‘summer doldrums,’ which helped provide a technical tailwind for municipal performance, net supply should begin to normalize in September and October to the tune of +\$13 billion according to JP Morgan.
- Inventory levels of municipal debt (as measured by MSRB) jumped in August after bottoming out in June and July. Daily offerings in the final two weeks of the month averaged \$9.5 billion, a roughly 50% increase from the \$6.3 billion average observed in June and July.
- Volatility in the Treasury market could create more windows of opportunity moving forward via yield spikes especially in a less supportive technical environment in terms of positive net supply post summer reinvestment season.
- Thanks to higher benchmark rates and stretched valuations in portions of the tax-exempt curve, the ICE BofA 1-12 Year Municipal Securities Index produced a -1.63% loss for the month.

DISCLOSURES

This Summary reflects the views of Veritable's Fixed Income Desk and is for your general information. It is not intended to provide personal investment advice and does not take into account the unique investment objectives and financial situation of the reader. Investors should only seek investment advice from their individual financial adviser. Investments in fixed income securities involve the risk of loss that investors should be prepared to bear. Forecasts may not be realized due to a variety of factors, including changes in economic growth, corporate profitability, geopolitical conditions, and inflation.

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Index Descriptions *(Investors cannot invest directly in an index)*

Bloomberg Barclays Intermediate Government Credit Index is a total returns index of U.S. dollar denominated U.S. Treasuries, government-related securities, and investment grade U.S. corporate securities that have a remaining maturity of greater than or equal to 1 year and less than 10 years. Securities must have \$250 million or more of outstanding face value and must be fixed rate and non-convertible.

ICE BofA 1-10 Year US Treasury Index is a subset of ICE BofA Treasury Index including all securities with a remaining term to final maturity greater than or equal to 1 year and less than 10 years.

ICE BofA 1-10 Year US Inflation-Linked Treasury Index is a subset of ICE BofA US Inflation-Linked Treasury Index including all securities with a remaining term to final maturity greater than or equal to 1 year and less than 10 years.

ICE BofA 1-10 Year Corporate Index measures the performance of investment grade corporate bonds of both U.S. and non-U.S. issuers that are U.S. dollar-denominated and publicly issued in the U.S. domestic market with a remaining term to final maturity greater than or equal to 1 year and less than 10 years.

ICE BofA 1-10 Year Taxable Municipal Index is designed to track the performance of U.S. dollar-denominated taxable municipal debt publicly issued by U.S. states and territories, and their political subdivisions, in the U.S. market with a remaining term to final maturity greater than or equal to 1 year and less than 10 years.

ICE BofA 1-12 Year Municipal Securities Index is a subset of ICE BofA Municipal Securities Index including all securities with a remaining term to final maturity less than 12 years. The ICE BofA Municipal Securities Index is market capitalization weighted and tracks the performance of U.S. dollar denominated investment grade tax-exempt debt publicly issued by U.S. states and territories, and their political subdivisions, in the U.S. domestic market. Qualifying securities must have at least one-year remaining term to final maturity, at least 18 months to final maturity at the time of issuance, a fixed coupon schedule and an investment grade rating (based on an average of Moody's, S&P and Fitch).

Consumer Price Index (CPI) is a measure of the average change over time in the prices paid by urban consumers for a market basket of consumer goods and services. The yearly (or monthly) growth rates represent the inflation rate. The CPI is published by the US Bureau of Labor Statistics on a monthly basis.

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